

06/09/98
13135 US PTO

Attorney Docket No. 65304-003

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231**

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): **Shenheng Guan
Lynn van Erden
Robert C. Haushalter
Xiao Ping Zhou
Jason Wang
Ravi Srinivasan**

For: **PARALLEL FIXED BED REACTOR AND FLUID CONTACTING
APPARATUS AND METHOD**

1. Type of Application

This new application is for a(n)

- ☒ Original (non-provisional)
☐ Design
☐ Plant
☐ Divisional
☐ Continuation
☐ Continuation-in-part (C-I-P)

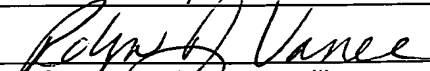
2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e) 120, or 121)

- ☐ The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date 06/09/98 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL075703674US addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Robyn J. Vance


Signature of person mailing paper

3. **Papers Enclosed That Are Required for Filing Date under 37 CFR 1.53(b) (Regular) or 37 CFR 1.153 (Design) Application**

24 Pages of specification

13 Pages of claims

1 Pages of Abstract

11 Sheets of Drawing

☐ formal

☒ informal

☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)". 37 CFR 1.84(b).

4. **Additional papers enclosed**

☐ Preliminary Amendment

☐ Information Disclosure Statement (37 CFR 1.98)

☐ Form PTO-1449

☐ Citations

☐ Declaration of Biological Deposit

☐ Submission of "Sequence Listing", computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative

☐ Special Comments

☐ Other

5. **Declaration or oath**

☐ Enclosed

Executed by

☐ inventor(s).

☐ legal representative of inventor(s).

☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.

☒ Not enclosed.

☐ Application is made by a person authorized under 37 CFR 1.41(c)
on behalf of all the above named inventor(s).

☐ Showing that the filing is authorized.

6. Inventorship Statement

The inventorship for all the claims in this application are:

☐ The same.

or

☐ Not the same. An explanation, including the ownership of the various
claims at the time last claimed invention was made,

☐ is submitted

☐ will be submitted.

7. Language

☒ English

☐ Non-English

☐ The attached translation is a verified translation. 37 CFR 1.52(d).

8. Assignment

☒ An assignment of the invention to SYMYX TECHNOLOGIES

☐ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT
(DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or

☐ FORM PTO 1595 is also attached.

☒ will follow.

9. Certified copy

Certified copy(ies) of application(s)

country	appln. no.	filed
country	appln. no.	filed
country	appln. no.	filed

from which priority is claimed

☐ is (are) attached.

☐ will follow.

10. Fee Calculation (37 CFR 1.16)

A. ☒ Regular application.

CLAIMS AS FILED			
Number Filed	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$ 790.00
Total Claims (37 CFR 1.16(c))	60 - 20 = 40	40 X \$ 22.00	880.00
Independent Claims (37 CFR 1.16(b))	4 - 3 = 1	1 X \$ 80.00	80.00
Multiple dependent claims, if any, (37 CFR 1.16(d))		X \$ 260.00	

☐ Amendment canceling extra claims enclosed.

☐ Amendment deleting multiple-dependencies enclosed

☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation \$ 1750.00

B. ☐ Design application (\$310.00-37 CFR 1.16(f))
Filing Fee Calculation \$ _____

C. ☐ Plant application (\$510.00-37 CFR 1.16(g))
Filing Fee Calculation \$ _____

11. Small Entity Statement(s)

☐ Verified Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.

☐ Status as a small entity was claimed in prior application serial no. _____, filed on _____, from which benefit is being claimed for this application under:

35 U.S.C. ☐ 119(e),

☐ 120,

☐ 121,

☐ 365(c),

and which status as a small entity is still proper and desired.

☐ A copy of the verified statement in the prior application is included.

Filing Fee Calculation (50% of A, B or C above)

\$ _____

12. Request for International-Type Search (37 CFR 1.104(d))

☐ Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

13. Fee Payment Being Made At This Time

☒ Not enclosed.

☐ No filing fee is to be paid at this time.

☐ Enclosed

☐ Basic filing fee 1750.00

\$ ☐ Recording assignment (\$40.00; 37 CFR 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".) _____

\$ ☐ Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to or cannot be reached. (\$130.00, 37 CFR 1.47 and .17(h)) _____

\$ ☐ For processing an application with a specification in a non-English language. (\$130.00; 37 CFR 1.52(d) and 1.17(k).) _____

\$ ☐ Processing and retention fee (\$130.00; 37 CFR 1.153(d) and 1.21 (i)) _____

\$ ☐ Fee for international-type search report (\$40.00; 37 CFR 1.21(e)) _____

\$ _____

Total fees enclosed 1750.00

\$ _____

14. Method of Payment of Fees

☐ Check in the amount of \$_____.

☐ Charge Deposit Account No. 18-0013 in the amount of \$ 0.00.
A duplicate of this transmittal is attached.

15. **Authorization to Charge Additional Fees**

- ☒ The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Deposit Account No. 18-0013
- ☒ 37 CFR 1.16(a), (f) or (g) (filing fees)
- ☒ 37 CFR 1.16(b), (c) and (d) (presentation of extra claims)
- ☒ 37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
- ☒ 37 CFR 1.17 (application processing fees)
- ☐ 37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311(b))

16. **Instructions as to Overpayment**

- ☒ Credit Deposit Account No. 18-0013
- ☐ Refund

Date: June 9, 1998


SIGNATURE OF ATTORNEY

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☐ **Incorporation by reference of added pages**

- ☐ Plus added pages for New Application Transmittal where benefit of prior U.S. application(s) claimed

Number of pages added _____

- ☐ Plus Added Pages for Papers Referred to in item 4 above

Number of pages added _____

- ☐ Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added _____

☒ **Statement Where No Further Pages Added**

- ☒ This transmittal ends with this page.